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(71) Applicant (for all designated States except US): VIRGINIA TECH INTELLECTUAL PROPERTIES, INC. [US/US]; 1872 Pratt Drive, Suite 1625, Blacksburg, VA 24060 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): REED, Jeffrey, Hugh [US/US]; 1105 Eheart Street, Blacksburg, VA 24060 (US). ROBERT, Pablo, M. [US/US]; 389 Charles Street, Blacksburg, VA 24060 (US).

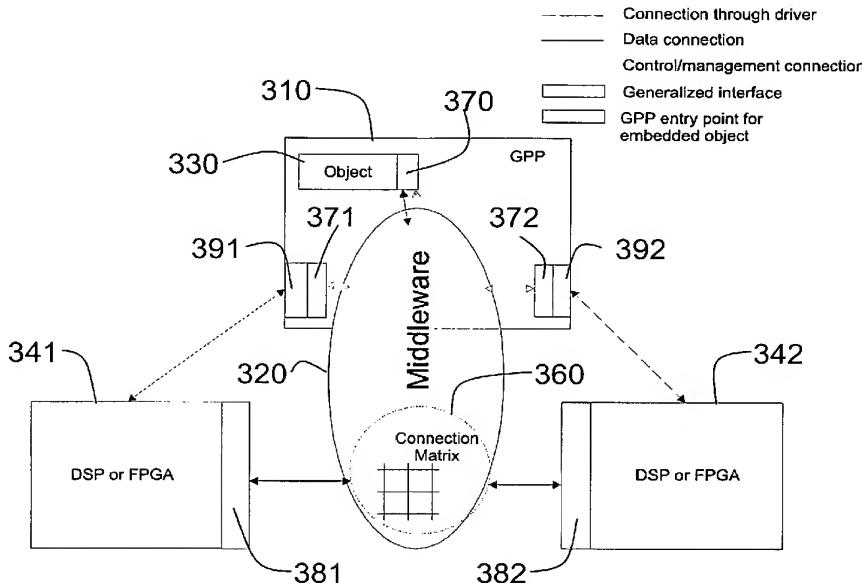
(74) Agents: WHITHAM, Michael, E. et al.; Whitham, Curtis & Christofferson, PC, 11491 Sunset Hills Road, Suite 340, Reston, VA 20191 (US).

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(54) Title: HARDWARE OBJECT REQUEST BROKER ON A CHIP FOR GENERATING SEPARATE CONTROL AND DATA CHANNELS FOR IMPROVED THROUGHPUT EFFICIENCY



(57) Abstract: A method and apparatus are disclosed for separating the functionality of middleware (320) in a device with embedded resources (341,342) so that data transfer between embedded resources used by an object (330) resident in a general purpose processor (310) of the device takes place directly, thereby minimizing bandwidth overhead at the general purpose processor. The control interface (371,372) for an embedded resource resides in the general purpose processor and uses the device driver of the embedded resource, whereas the data interface (381,382) is outside the general purpose processor and provides direct communication with a switch matrix (360) serving each embedded resource.

WO 2005/093571 A1



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